## **Listing of Claims**

- 1. (Currently Amended) A method of visualising an internal hollow organ of a subject based on a volumetric scan thereof, said method comprising the step of:
- a) Reconstructing a number of three-dimensional images-(1) of the internal surface of the hollow organ-(3);

characterised in that for each image the method comprises the steps of:

- b) Calculating an image (L<sub>i</sub>) for the left eye from a first view point (l<sub>i</sub>);
- c) Calculating an image-(R<sub>i</sub>-) for the right eye from a second view point-(r<sub>i</sub>) that differs from the first view point;
- d) Combining the left eye image and the right eye image into a pair-(L; ,R; ) to form a stereoscopic image; and
- e) Showing the stereoscopic image using stereoscopic imager means.
- 2. (Currently Amended) Method according to claim 1, wherein step a) further comprises the steps of:
- I. Defining a view path-(4) through the hollow organ-(3); and
- II. Reconstructing the images as seen from view points lying on the view path, characterised in that, at least the first-(1;) or the second view point-(r;) lies on the view path.
- 3. (Currently Amended) Method according to claim 1, wherein step a) further comprises the steps of:
- I. Defining a view path-(4) through the hollow organ-(3); and
- II. Reconstructing the images as seen from view points lying on the view path, characterised in that, both the first-(1;) and second view point-(r;) lie on the view path.
- 4. (Currently Amended) Method according to claim 3, wherein view points on the view path-(4) are alternately used as first-(1) or second view point-(r).
- 5. (Currently Amended) Method according to claim 1, wherein step a) further comprises the steps of:
- I. Defining a view path (4) through the hollow organ (3), the method being

characterised in that, for each image the first view point-(l<sub>i</sub>) lies on a first line and the second view point-(r<sub>i</sub>) lies on a second line, which first and second lines extend essentially parallel to the view path at a certain mutual distance.

- 6. (Currently Amended) Method according to one or more of the preceding elaimsclaim 1, wherein the distance between the first-(1;) and the second viewpoint-(r;) is essentially one or more millimetres.
- 7. (Currently Amended) Method according to one or more of the preceding elaimsclaim 1, wherein the view direction in the first (l<sub>i</sub>) and the second view point (r<sub>i</sub>) is essentially parallel.
- 8. (Currently Amended) Method according to one or more of the preceding elaimsclaim 1, wherein step e) further comprises the steps of:
- I. Showing the left- $(L_i)$  and right eye image- $(R_i)$  forming a stereoscopic image- $(L_i, R_i)$  with different modification; and
- II. Arranging the stereoscopic imager means such that the left eye image is passed to the left eye and the right eye image is passed to the right eye.
- 9. (Currently Amended) Method according to claim 8, wherein step I comprises the step of:

Alternately showing the left- $(L_i)$  and right eye image  $(R_i)$  of a stereoscopic image  $(L_i, R_i)$  with different polarization; and wherein step II comprises the step of:

Providing the stereoscopic imager means with correspondingly differently polarized viewing means for respectively the left and right eye.

10. (Currently Amended) Method according to claim 8, wherein step I comprises the step of:

Showing the left- $(L_i)$  and right eye image- $(R_i)$  of a stereoscopic image- $(L_i)$  with different time-multiplexation, and wherein step II comprises the step of:

Providing the stereoscopic imager means with different viewing means for the left and right eye that are to be activated separately by a control unit based on corresponding time-multiplexation signals.

- 11. (Currently Amended) Method according to claim 9-or 10, wherein the viewing means are incorporated in a head-mountable display.
- 12. (Currently Amended) Method according to one or more of the preceding claims

  1 through 8claim 1, wherein the stereoscopic imager means comprise a lenticular screen.
- 13. (Currently Amended) A system for visualising an internal hollow organ of a subject based on a volumetric scan thereof, which systems comprises: means for carrying out the steps of the method according to one or more of the preceding claims.
- a) means for reconstructing a number of three-dimensional images of the internal surface of the hollow organ;

characterised in that for each image the method comprises the steps of:

- b) means for calculating an image for the left eye from a first view point;
- c) means for calculating an image for the right eye from a second view point that differs from the first view point;
- d) means for combining the left eye image and the right eye image into a pair to form a stereoscopic image; and
- e) means for showing the stereoscopic image using stereoscopic imager means.
- 14. (Currently Amended) <u>A computer readable media comprising a Computer</u> program to carry out the method according one or more of the preceding claims 1 through 12to claim 1.
- 15. (New) Method according to claim 10, wherein the viewing means are incorporated in a head-mountable display.